

Engineer: Chris Samios	Date: 5/22/03				
Drawn: Ken Wade	Date: 5/22/03				
Approved: CTS	Date: 9/10/03				
Issued/ Revised	Date: 3/24/04	Size: A	Dwg. #: 5961-271240-APP	Rev: A	Sheet: 1 Of 1

Raytheon

JPS Communications
5800 Departure Drive, Raleigh, NC 27616

APPLIES TO: Q-MAC HF-90 Portable Radio

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291240	(5961-271240 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281240	(5961-271240 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271240	
Radio RF Connector Type	BNC	

DSP PROGRAMMING:

RX Level	3*	0dBm*
TX Level	4	-8dBm
Squelch Type	VMR	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

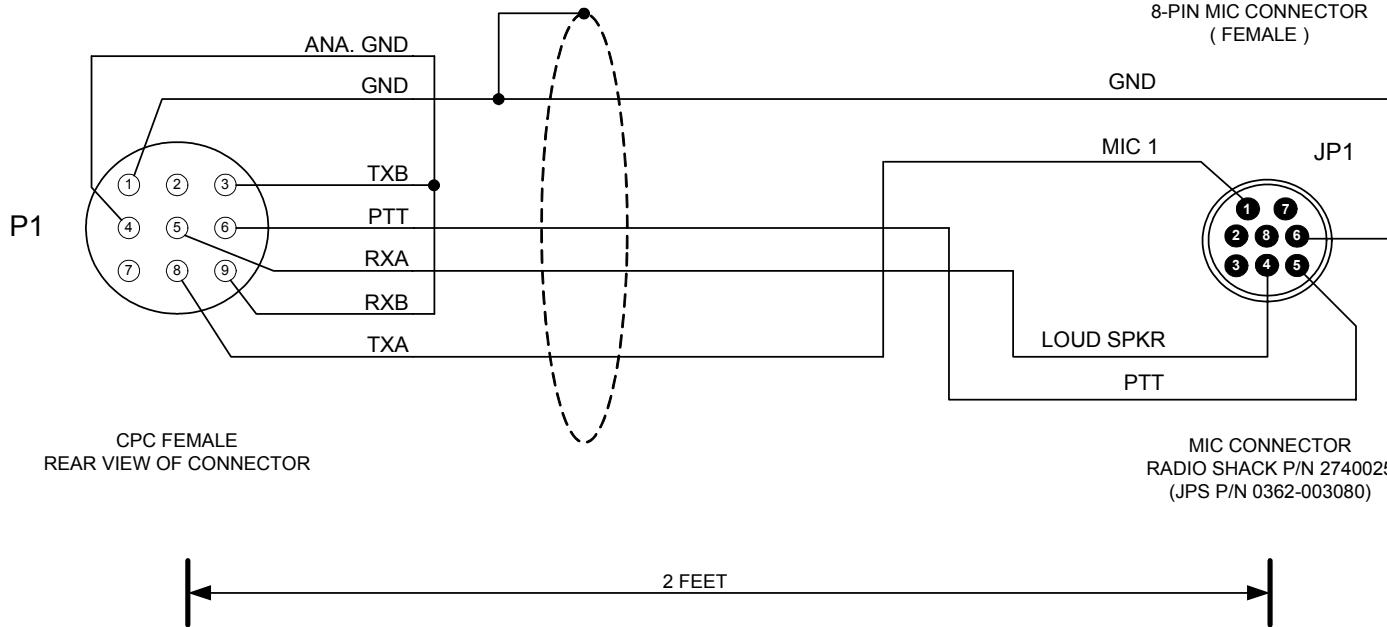
(* Indicates Default Value)

NOTES:

Rev	ECO	Date
A		

PURCHASED PART

USE MOLDED CABLE
(JPS P/N 5961-261003-00)



COMPONENT PCB
(JPS P/N 5961-271000)

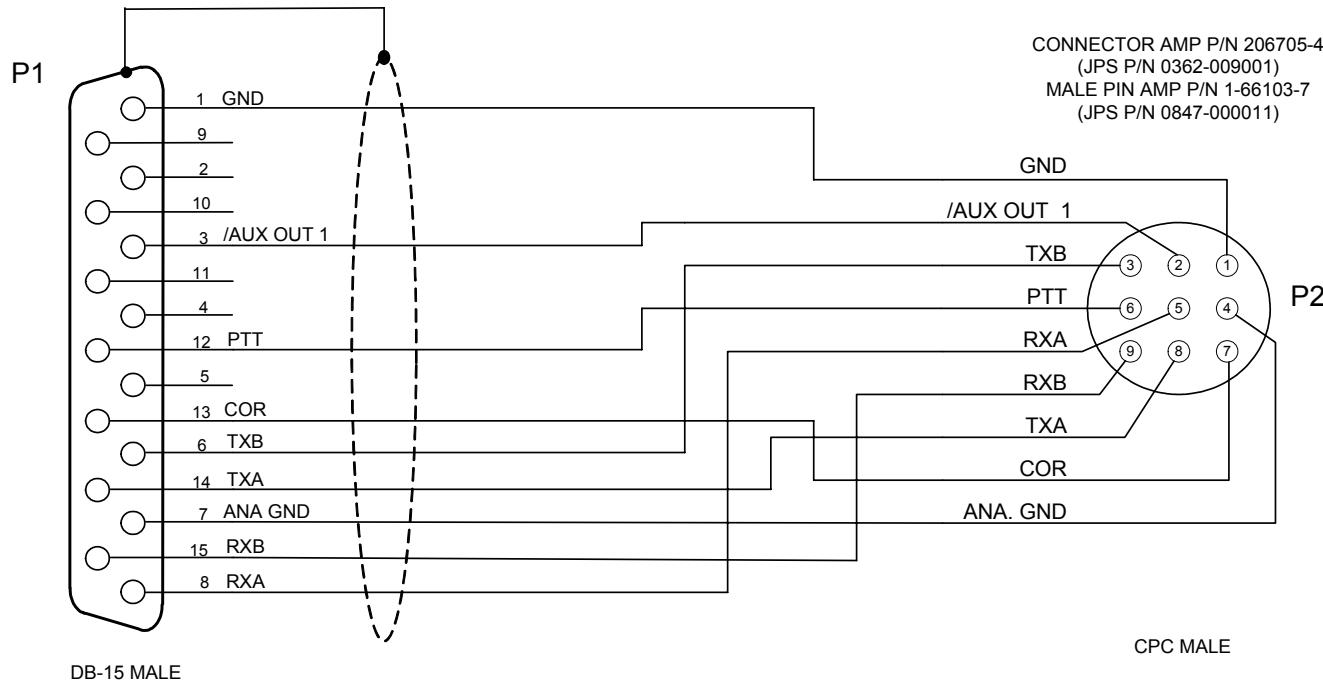
JU1
JU2
JU4
JU5
JU6

USED WITH:
Q-MAC HF-90 PORTABLE RADIO

Designed By:	KBW	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, CPC TO Q-MAC HF-90		
Checked By:	CTS	Size A	Document Number 5961-271240	Rev A
		Issued Date NOVEMBER 9, 2003	Sheet 1 of 1	

PURCHASED PART

Rev	ECO	Date
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NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND
REV, VENDOR CODE AND DATE (MM/YY).

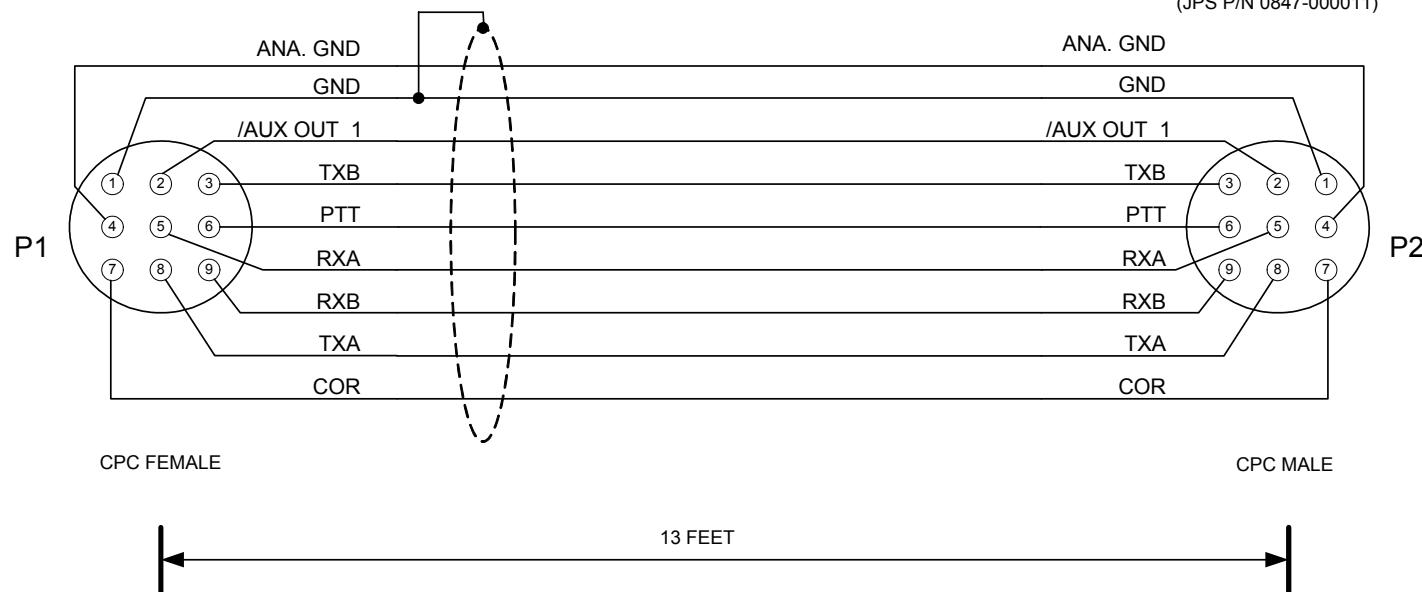
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title	CABLE, ACU-1000 RADIO EXTENSION - 13 FT	
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
	Issued Date JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



NOTES:

- 1) USE BELDEN 9934 SHIELDED CABLE.
- 2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
- 3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
- 4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By:	JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By:	RBP	Size A	Document Number 5961-281013-00	Rev A
		Issued Date JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>	